

Based on Form PTO-1449
(3/90)

ATTY. DOCKET NO.

SERIAL NO.

674523-2017.1

10/716,725

APPLICANT

Mazarakis, et al.

FILING DATE

November 19, 2003

GROUP

1632

LIST OF REFERENCES CITED BY APPLICANT

(Use several sheets if necessary)

U.S. PATENT DOCUMENTS

| EXAMINER INITIAL | | DOCUMENT NUMBER | DATE | NAME | CLASS | SUBCLASS | FILING DATE IF APPROPRIATE |
|---------------------|----|-----------------|------|------|-------|----------|-------------------------------|
| | AA | | | | | | |
| | AB | | | | | | |
| | AC | | | | | | |
| | AD | | | | | | |
| | AE | | | | | | |
| | AF | | | | | | |
| | AG | | | | | | |
| | AH | | | | | | |
| | AI | | | | | | |
| | AJ | | | | | | |
| | AK | | | | | | |

FOREIGN PATENT DOCUMENTS

| | | DOCUMENT NUMBER | DATE | COUNTRY | CLASS | SUBCLASS | TRANSLATION | |
|----|----|-----------------|----------|---------|-------|----------|-------------|----|
| | | | | | | | YES | NO |
| CL | AL | WO 98/31395 | 07/23/98 | PCT | | | | |
| | AM | | | | | | | |
| | AN | | | | | | | |
| | AO | | | | | | | |
| | AP | | | | | | | |

OTHER PRIOR ART (Including Author, Title, Date, Pertinent Pages, Etc.)

| | | | |
|--|----|--|--|
| | AQ | | |
| | AR | | |
| | AS | | |
| | AT | | |
| | AU | | |
| | AV | | |

EXAMINER

DATE CONSIDERED

* EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

| | | | | | | | |
|--|--|--|--|--|--|------------------------------|--|
| Based on Form PTO-1449 (3/90) | | | | ATTY. DOCKET NO. 674523-2017.1 | | SERIAL NO. TBA | |
| LIST OF REFERENCES CITED BY APPLICANT (Use several sheets if necessary) | | | | APPLICANT Mazarakis, et al. | | | |
| | | | | FILING DATE Herewith | | GROUP TBA | |

| U.S. PATENT DOCUMENTS | | | | | | | |
|------------------------------|-----------------|--------------|----------|---------------|----------|----------------------------|--|
| EXAMINER INITIAL | DOCUMENT NUMBER | DATE | NAME | CLASS | SUBCLASS | FILING DATE IF APPROPRIATE | |
| CCL ↓ ↓ ↓ ↓ ↓ | AA | 5,817,491 | 10/06/98 | Yee et al. | | | |
| | AB | 6,080,912 | 06/00 | Bremel et al. | | | |
| | AC | 6,277,633 | 08/01 | Olsen | | | |
| | AD | 2003/0118552 | 06/26/03 | Kaspar et al. | | | |
| | AE | 2003/0118556 | 06/26/03 | Kaspar et al. | | | |

| FOREIGN PATENT DOCUMENTS | | | | | | | | |
|--|-----------------|--------------|----------|-------|----------|-------------|----|--|
| EXAMINER INITIAL | DOCUMENT NUMBER | DATE | COUNTRY | CLASS | SUBCLASS | TRANSLATION | | |
| | | | | | | YES | NO | |
| CCL ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ | AF | WO 93/01833 | 02/93 | WIPO | | | | |
| | AG | WO 94/08022 | 04/92 | WIPO | | | | |
| | AH | WO 98/05759 | 02/98 | WIPO | | | | |
| | AI | WO 95/22617 | 08/95 | WIPO | | | | |
| | AJ | WO 92/14829 | 09/92 | WIPO | | | | |
| | AK | 0 261 940 | 03/88 | EPO | | | | |
| | AL | WO 92/03537 | 03/92 | WIPO | | | | |
| | AM | WO 96/09400 | 03/96 | WIPO | | | | |
| | AN | WO 93/14188 | 07/93 | WIPO | | | | |
| | AO | WO 00/55343 | 09/21/00 | WIPO | | | | |
| | AP | WO 99/61639 | 12/02/99 | WIPO | | | | |
| | AQ | WO 98/39463 | 09/11/98 | WIPO | | | | |
| | AR | WO 00/65034 | 11/02/00 | WIPO | | | | |
| | AS | WO 98/32869 | 07/30/98 | WIPO | | | | |
| | AT | WO 03/055983 | 07/10/03 | WIPO | | | | |

| OTHER PRIOR ART (Including Author, Title, Date, Pertinent Pages, Etc.) | | | |
|--|----|--|--|
| CCL | AU | J.P. Gillet, et al., "Axonal Transport of Rabies Virus in the Central Nervous System of the Rat", Journal of Neuropathology and Experimental Neurology, Vol. 45, No. 6, pp. 619-634, November 1986 | |
| ↓ | AV | L.C. Costantini, et al., "Gene Transfer to the Nigrostriatal System by Hybrid Herpes Simplex Virus/Adeno-Associated Virus Amplicon Vectors", Human Gene Therapy, Vol. 10, pp. 2481-2494, October 10, 1999 | |
| ↓ | AW | N.D. Mazarakis, et al. "Rabies Virus Glycoprotein Pseudotyping of Lentiviral Vectors Enables Retrograde Axonal Transport and Access to the Nervous System After Peripheral Delivery", Human Molecular Genetics, Vol. 10, No. 19, pp. 2109-2121, 2001 | |
| ↓ | AX | H. Lee, et al., "Efficient Gene Transfer of VSV-G Pseudotyped Retroviral Vector to Human Brain Tumor", Gene Therapy, Vol. 8, pp. 268-273, 2001 | |

| | |
|------------------|---------------------------------------|
| EXAMINER | DATE CONSIDERED 6/55/06 |
|------------------|---------------------------------------|

* EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

| | | | | | | | |
|--|----|---|------|--|-------|--------------------------|-------------------------------|
| Based on Form PTO-1449 (3/90) | | | | ATTY. DOCKET NO. 674523-2017.1 | | SERIAL NO. TBA | |
| LIST OF REFERENCES CITED BY APPLICANT (Use several sheets if necessary) | | | | APPLICANT Mazarakis, et al. | | | |
| | | | | FILING DATE Herewith | | GROUP TBA | |
| U.S. PATENT DOCUMENTS | | | | | | | |
| EXAMINER INITIAL | | DOCUMENT NUMBER | DATE | NAME | CLASS | SUBCLASS | FILING DATE IF APPROPRIATE |
| | AY | | | | | | |
| | AZ | | | | | | |
| | BA | | | | | | |
| FOREIGN PATENT DOCUMENTS | | | | | | | |
| | | DOCUMENT NUMBER | DATE | COUNTRY | CLASS | SUBCLASS | TRANSLATION |
| | | | | | | | YES NO |
| | BC | | | | | | |
| | BD | | | | | | |
| | BF | | | | | | |
| OTHER PRIOR ART (Including Author, Title, Date, Pertinent Pages, Etc.) | | | | | | | |
| | BG | K.A. Mitrophanous, et al., "Stable Gene Transfer to the Nervous System Using a Non-Primate Lentiviral Vector", Gene Therapy, Vol. 6, pp. 1808-1818, 1999 | | | | | |
| | BH | H. Mochizuki, et al., "High-Titer Human Immunodeficiency Virus Type 1-Based Vector Systems for Gene Delivery Into Nondividing Cells", Journal of Virology, Vol. 72, No. 11, pp. 8873-8883, November 1998 | | | | | |
| | BI | J. Fleming, et al., "Adeno-Associated Virus and Lentivirus Vectors Mediate Efficient and Sustained Transduction of Cultured Mouse and Human Dorsal Root Ganglia Sensory Neurons", Human Gene Therapy, Vol. 12, pp. 77-86, January 1, 2001 | | | | | |
| | BJ | T. Kafri et al., "A Packaging Cell Line for Lentivirus Vectors", Journal of Virology, Vol. 73, No. 1, pp. 576-584, January 1999 | | | | | |
| | BK | Morimoto et al. PNAS, Vol. 95, pp. 3152-3156, March 1998 | | | | | |
| | BL | Gaudin et al. Virology, Vol. 187, pp. 627-632, 1992 | | | | | |
| | BM | Andrew Mountain, Gene Therapy: the first decade, Vol. 18, March 2000 | | | | | |
| | BN | W. French Anderson, Human Gene Therapy, Nature Vol. 392, Supp. April 30, 1998 | | | | | |
| | BO | Inder M. Verma et al., Gene Therapy-Promises, Problems and Prospects, Nature Vol. 389, September 18, 1997 | | | | | |
| | BP | Eric B. Kmeic, Gene Therapy 240 American Scientist, Vol. 87, May-June 1999 | | | | | |
| | BQ | P. Coulon et al., "An Avident Mutant of Rabies Virus is Unable to Infect Motoneurons In Vivo and In Vitro", Journal of Virology, American Society for Microbiology, Vol. 72, No. 1, pp 273-378, January 1998 | | | | | |
| | BR | | | | | | |
| | BS | | | | | | |
| | BT | | | | | | |
| | BU | | | | | | |
| | BV | | | | | | |
| | BW | | | | | | |
| EXAMINER | | | | DATE CONSIDERED 6/05/00 | | | |

* EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

| | | | | | | | |
|--|--|--|--|--|--|------------------------------|--|
| Based on Form PTO-1449 (3/90) | | | | ATTY. DOCKET NO. 674523-2017.1 | | SERIAL NO. TBA | |
| LIST OF REFERENCES CITED BY APPLICANT (Use several sheets if necessary) | | | | APPLICANT Mazarakis, et al. | | | |
| | | | | FILING DATE Herewith | | GROUP TBA | |

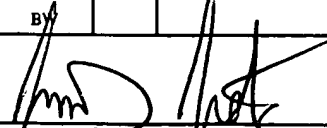
| U.S. PATENT DOCUMENTS | | | | | | | |
|-----------------------|----|-----------------|----------|---------------|-------|----------|----------------------------|
| EXAMINER INITIAL | | DOCUMENT NUMBER | DATE | NAME | CLASS | SUBCLASS | FILING DATE IF APPROPRIATE |
| | AA | 5,817,491 | 10/06/98 | Yee et al. | | | |
| | AB | 6,080,912 | 06/00 | Bremel et al. | | | |
| | AC | 6,277,633 | 08/01 | Olsen | | | |
| | AD | 2003/0118552 | 06/26/03 | Kaspar et al. | | | |
| | AE | 2003/0118556 | 06/26/03 | Kaspar et al. | | | |

| FOREIGN PATENT DOCUMENTS | | | | | | | | |
|--------------------------|----|-----------------|----------|---------|-------|----------|-------------|----|
| | | DOCUMENT NUMBER | DATE | COUNTRY | CLASS | SUBCLASS | TRANSLATION | |
| | | | | | | | YES | NO |
| | AF | WO 93/01833 | 02/93 | WIPO | | | | |
| | AG | WO 94/08022 | 04/92 | WIPO | | | | |
| | AH | WO 98/05759 | 02/98 | WIPO | | | | |
| | AI | WO 95/22617 | 08/95 | WIPO | | | | |
| | AJ | WO 92/14829 | 09/92 | WIPO | | | | |
| | AK | 0 261 940 | 03/88 | EPO | | | | |
| | AL | WO 92/03537 | 03/92 | WIPO | | | | |
| | AM | WO 96/09400 | 03/96 | WIPO | | | | |
| | AN | WO 93/14188 | 07/93 | WIPO | | | | |
| | AO | WO 00/55343 | 09/21/00 | WIPO | | | | |
| | AP | WO 99/61639 | 12/02/99 | WIPO | | | | |
| | AQ | WO 98/39463 | 09/11/98 | WIPO | | | | |
| | AR | WO 00/65034 | 11/02/00 | WIPO | | | | |
| | AS | WO 98/32869 | 07/30/98 | WIPO | | | | |
| | AT | WO 03/055983 | 07/10/03 | WIPO | | | | |

| OTHER PRIOR ART (Including Author, Title, Date, Pertinent Pages, Etc.) | | | |
|--|----|--|---|
| | AU | | J.P. Gillet, et al., "Axonal Transport of Rabies Virus in the Central Nervous System of the Rat", Journal of Neuropathology and Experimental Neurology, Vol. 45, No. 6, pp. 619-634, November 1986 |
| | AV | | L.C. Costantini, et al., "Gene Transfer to the Nigrostriatal System by Hybrid Herpes Simplex Virus/Adeno-Associated Virus Amplicon Vectors", Human Gene Therapy, Vol. 10, pp. 2481-2494, October 10, 1999 |
| | AW | | N.D. Mazarakis, et al., "Rabies Virus Glycoprotein Pseudotyping of Lentiviral Vectors Enables Retrograde Axonal Transport and Access to the Nervous System After Peripheral Delivery", Human Molecular Genetics, Vol. 10, No. 19, pp. 2109-2121, 2001 |
| | AX | | H. Lee, et al., "Efficient Gene Transfer of VSV-G Pseudotyped Retroviral Vector to Human Brain Tumor", Gene Therapy, Vol. 8, pp. 268-273, 2001 |

| | |
|------------------|---------------------------------------|
| EXAMINER | DATE CONSIDERED 6/85/06 |
|------------------|---------------------------------------|

* EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

| | | | | | | | |
|--|----|-----------------|---|--|-------|------------------------------|-------------------------------|
| Based on Form PTO-1449 (3/90) | | | | ATTY. DOCKET NO. 674523-2017.1 | | SERIAL NO. TBA | |
| LIST OF REFERENCES CITED BY APPLICANT (Use several sheets if necessary) | | | | APPLICANT Mazarakis, et al. | | | |
| | | | | FILING DATE Herewith | | GROUP TBA | |
| U.S. PATENT DOCUMENTS | | | | | | | |
| EXAMINER INITIAL | | DOCUMENT NUMBER | DATE | NAME | CLASS | SUBCLASS | FILING DATE IF APPROPRIATE |
| | AY | | | | | | |
| | AZ | | | | | | |
| | BA | | | | | | |
| FOREIGN PATENT DOCUMENTS | | | | | | | |
| | | DOCUMENT NUMBER | DATE | COUNTRY | CLASS | SUBCLASS | TRANSLATION |
| | | | | | | | YES NO |
| | BC | | | | | | |
| | BD | | | | | | |
| | BF | | | | | | |
| OTHER PRIOR ART (Including Author, Title, Date, Pertinent Pages, Etc.) | | | | | | | |
| COL | BG | | K. A. Mitrophanous, et al., "Stable Gene Transfer to the Nervous System Using a Non-Primate Lentiviral Vector", Gene Therapy, Vol. 6, pp. 1808-1818, 1999 | | | | |
| ↓ | BH | | H. Mochizuki, et al., "High-Titer Human Immunodeficiency Virus Type 1-Based Vector Systems for Gene Delivery Into Nondividing Cells", Journal of Virology, Vol. 72, No. 11, pp. 8873-8883, November 1998 | | | | |
| ↓ | BI | | J. Fleming, et al., "Adeno-Associated Virus and Lentivirus Vectors Mediate Efficient and Sustained Transduction of Cultured Mouse and Human Dorsal Root Ganglia Sensory Neurons", Human Gene Therapy, Vol. 12, pp. 77-86, January 1, 2001 | | | | |
| ↓ | BJ | | T. Kafri et al., "A Packaging Cell Line for Lentivirus Vectors", Journal of Virology, Vol. 73, No. 1, pp. 576-584, January 1999 | | | | |
| ↓ | BK | | Morimoto et al. PNAS, Vol. 95, pp. 3152-3156, March 1998 | | | | |
| ↓ | BL | | Gaudin et al. Virology, Vol. 187, pp. 627-632, 1992 | | | | |
| ↓ | BM | | Andrew Mountain, Gene Therapy: the first decade, Vol. 18, March 2000 | | | | |
| ↓ | BN | | W. French Anderson, Human Gene Therapy, Nature Vol. 392, Supp, April 30, 1998 | | | | |
| ↓ | BO | | Inder M. Verma et al., Gene Therapy-Promises, Problems and Prospects, Nature Vol. 389, September 18, 1997 | | | | |
| ↓ | BP | | Eric B. Kneic, Gene Therapy 240 American Scientist, Vol. 87, May-June 1999 | | | | |
| ↓ | BQ | | P. Coulon et al., "An Avirulent Mutant of Rabies Virus is Unable to Infect Motoneurons In Vivo and In Vitro", Journal of Virology, American Society for Microbiology, Vol. 72, No. 1, pp 273-378, January 1998 | | | | |
| | BR | | | | | | |
| | BS | | | | | | |
| | BT | | | | | | |
| | BU | | | | | | |
| | BV | | | | | | |
| | BY | | | | | | |
| EXAMINER  | | | | DATE CONSIDERED 6/05/06 | | | |
| * EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. | | | | | | | |